

CLAIMS

1. An elevator apparatus comprising:
 - a car that is raised and lowered within a hoistway;
 - a drive unit that raises and lowers the car;
 - a drive control portion that controls the drive unit;
 - an safety device that is provided on the car to bring the car to an emergency stop;
 - a safety control portion that detects an abnormality in an elevator and outputs an actuation signal;
 - an electrical actuator portion that actuates the safety device in response to an actuation signal output from the safety control portion;
 - a mechanical actuator portion that mechanically detects an abnormality in the elevator and actuates the safety device through mechanical transmission of a control force; and
 - a backup power source for enabling functioning of at least of the drive unit and the drive control portion in case of power failure.
2. An elevator apparatus according to Claim 1, wherein the mechanical actuator portion detects an overspeed of the car.
3. An elevator apparatus according to Claim 1, wherein the

mechanical actuator portion detects a break in a main rope suspending the car within the hoistway.

4. An elevator apparatus according to Claim 1, wherein in case of power failure, electric power supply by the backup power source is cut off after the car has been moved to a landing floor by the drive control portion.

5. An elevator apparatus according to Claim 4, wherein the backup power source further enables functioning of the safety control portion and the electrical actuation portion in case of power failure, and

wherein in case of power failure, electric power supply by the backup power source is cut off after the car is moved to a landing floor and the safety device is activated by the electrical activator portion.

6. An elevator apparatus according to Claim 4, wherein the backup power source further enables functioning of the safety control portion and the electrical actuation portion in case of power failure, and

wherein in case of power failure, the safety device is actuated by cutting off electric power supply by the backup power source after the car is moved to a landing floor.

7. An elevator apparatus comprising:

- a car that is raised and lowered within a hoistway;
- a drive unit that raises and lowers the car;
- a drive control portion that controls the drive unit;
- an safety device that is provided on the car to bring the car to an emergency stop;
- a safety control portion that detects an abnormality in an elevator and outputs an actuation signal;
- an electrical actuator portion that actuates the safety device in response to an actuation signal output from the safety control portion;
- a backup power source for enabling functioning of the drive unit, the drive control portion, the safety control portion, and the electrical actuator portion in case of power failure.

8. An elevator apparatus according to Claim 6, wherein in case of power failure, electric power supply by the backup power source is cut off after the car is moved to a landing floor by the drive control portion and the safety device is actuated by the electrical actuator portion.

9. An elevator apparatus according to Claim 7, wherein in case of power failure, the safety device is actuated by cutting off electric

power supply by the backup power source after the car is moved to a landing floor by the drive control portion.

10. An elevator apparatus according to Claim 1 or 7, wherein the drive control portion and the safety control portion are provided with storage portions in which operational information including positional information on the car is stored, and

wherein operation of the elevator apparatus is resumed based on the operational information stored in the storage portions after a termination of a power failure.